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A third group of Nazarov's investigations was devoted to the synthesis, on the basis of divinylketones and vinylallylketones, of heterocyclic compounds containing piperidine, pyrone, thiopyran, and furane nuclei. Some of these compounds were found to be physiologically active, and further work in this field led to the development of the new analgesic promedol, which has a stronger action than morphine but is free of the latter drug's toxic properties. At present promedol is being manufactured industrially for medical use.

The fourth group of investigations carried out by Nazarov deals with the synthesis of polycyclic compounds on the basis of vinylacetylene. This includes compounds which are related to steroids. In the course of this work, the complete synthesis of a number of compounds was accomplished of the cis-cis-series with the skeletons of androstane, homoandrostane, estrane, and of their heterocyclic analogs. The work in question opened the way to the solution of one of the fundamental problems of contemporary organic chemistry, namely that of the chemistry of steroid compounds. This subdivision of Nazarov's work required the completion of a number of theoretical investigations pertaining to the mechanism of the diene synthesis and to its stereochemistry.

Because of its purposeful character and its scope, Nazarov's work represents an important contribution to modern organic chemistry. Nazarov must be considered one of the most outstanding contemporary organic chemists.

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